



Method Development Kits

- Change selectivity to improve resolution
- Detect hidden impurities
- Rapid method development
- 3 or 5 column kits
- LC/MS cartridge screening kits

Method development kits enable the optimum bonded phase to be selected for a specific application. A more detailed discussion of each phase and suitable application areas is listed on pages 4 and 5.

The availability of a range of phases offering different selectivities enables resolution optimisation, improves the chances of impurity detection and increases the speed at which methods are developed. A selection of kits containing either five columns (complete method development kits and LC/MS method development kits) or three columns (selectivity kits) are offered.

Complete Method Development Kits

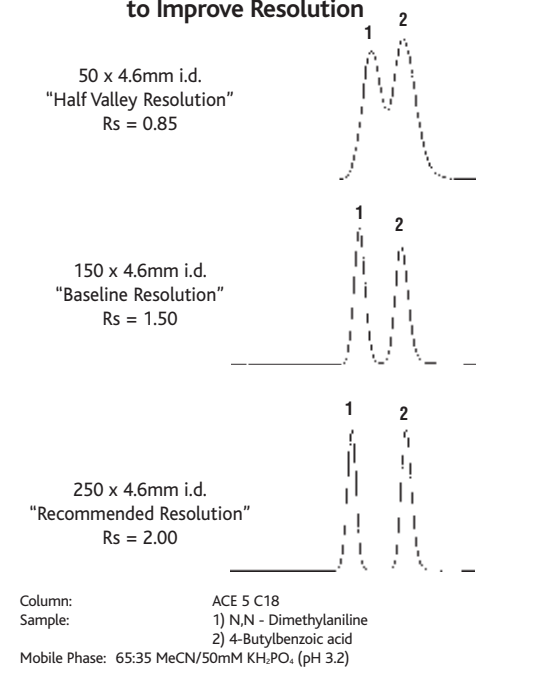
- Complete 5 column kit
- Contains C18, C8, C4, CN and Phenyl phases
- Extremely cost effective



Each kit contains five columns packed with C18, C8, C4, CN and Phenyl phases. Column lengths of 50, 150 and 250mm are routinely available with both 3 and 5µm particle sizes. Additional column dimensions are also available on request - please contact your local distributor for details.

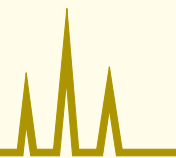
The use of 50mm length columns is particularly recommended for rapid method development applications. As shown by Figure 36, a 50mm column may be used to achieve partial resolution of the peaks of interest. Column length and/or particle size can then be optimised to improve resolution. Significant time savings usually result from such a method development strategy.

Figure 36. Optimisation of Column Length to Improve Resolution



COMPLETE METHOD DEVELOPMENT KITS	50 X 4.6mm	150 X 4.6mm	250 X 4.6mm
3µm Complete Method Development Kit (C18, C8, C4, CN & Ph phases)	ACE-MDK3-0546	ACE-MDK3-1546	-
5µm Complete Method Development Kit (C18, C8, C4, CN & Ph phases)	ACE-MDK5-0546	ACE-MDK5-1546	ACE-MDK5-2546

Additional column dimensions are available on request - please contact your local distributor for further information.



LC/MS Method Development Kits

- Complete 5 column kit
- C18, C8, C4, CN and Phenyl phases
- High performance LC/MS columns
- Full range of diameters and lengths available
- Ideal for rapid, economical multi-phase screening

LC/MS Method Development Kits enable rapid, economical multi-phase screening. Each kit contains 5 fully validated columns packed with C18, C8, C4, CN and phenyl phases. Columns are available in 20, 30, 35 and 50mm lengths with 4.6, 4.0, 3.0, 2.1 and 1.0mm internal diameters. Both 3 and 5µm particle sizes are available, with typical efficiencies equivalent to standard analytical columns. Examples of the most popular kits are listed below.

LC/MS METHOD DEVELOPMENT KITS	20 X 2.1mm	30 X 2.1mm	50 X 2.1mm
3µm LC/MS Method Development Kit (C18, C8, C4, CN, Ph phases)	ACE-MDK3-0202	ACE-MDK3-0302	ACE-MDK3-0502
5µm LC/MS Method Development Kit (C18, C8, C4, CN, Ph phases)	ACE-MDK5-0202	ACE-MDK5-0302	ACE-MDK5-0502

LC/MS Method Development Kits are also available in 1.0, 3.0, 4.0 and 4.6mm internal diameters – please contact your distributor for further information.

Selectivity Kits

- 3 column kits
- Hydrophobicity Kit (C18, C8 and C4 columns)
- Polarity Kit (C18, CN and Phenyl columns)
- C18 Kit (C18, C18-HL and C18-300 columns)

Selectivity kits are recommended when complete 5 column kits are not required, and are available in 50, 150 and 250mm column lengths with 3 and 5µm particle sizes. Three types of selectivity kit are offered; Hydrophobic Selectivity Kits contain C18, C8 and C4 columns, Polar Selectivity Kits contain C18, CN and Phenyl columns and C18 Selectivity Kits contain C18, C18-HL and C18-300 columns.



HYDROPHOBIC SELECTIVITY KITS	50 X 4.6mm	150 X 4.6mm	250 X 4.6mm
3µm Hydrophobic Selectivity Kit (C18, C8 and C4 phases)	ACE-HSK3-0546	ACE-HSK3-1546	-
5µm Hydrophobic Selectivity Kit (C18, C8 and C4 phases)	ACE-HSK5-0546	ACE-HSK5-1546	ACE-HSK5-2546

POLAR SELECTIVITY KITS	50 X 4.6mm	150 X 4.6mm	250 X 4.6mm
3µm Polar Selectivity Kit (C18, CN and phenyl phases)	ACE-PSK3-0546	ACE-PSK3-1546	-
5µm Polar Selectivity Kit (C18, CN and phenyl phases)	ACE-PSK5-0546	ACE-PSK5-1546	ACE-PSK5-2546

C18 SELECTIVITY KITS	50 X 4.6mm	150 X 4.6mm	250 X 4.6mm
3µm C18 Selectivity Kit (C18, C18-HL and C18-300 phases)	ACE-CSK3-0546	ACE-CSK3-1546	-
5µm C18 Selectivity Kit (C18, C18-HL and C18-300 phases)	ACE-CSK5-0546	ACE-CSK5-1546	ACE-CSK5-2546

Additional column dimensions are available on request - please contact your local distributor for further information.

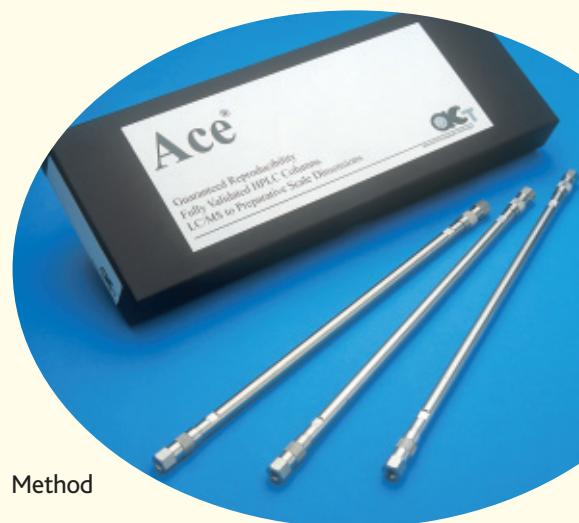


Method Validation Kits

- Guaranteed assay reproducibility
- Ensure long term compliance
- Rapid method validation
- Available for any ACE column

ACE phases are widely recognized to offer outstanding reproducibility. To aid method validation, a convenient kit containing three columns of the same bonded phase and dimensions, packed with three different batches of silica is available.

This enables the chromatographer to rapidly confirm separation reproducibility. Method Validation Kits are available for all phases and column dimensions. Examples of the most popular kits are listed below.



METHOD VALIDATION KITS	50 X 4.6mm	150 X 4.6mm	250 X 4.6mm
3µm Method Validation Kit (three different batches of the same phase)	X-0546-MVK	X-1546-MVK	-
5µm Method Validation Kit (three different batches of the same phase)	X-0546-MVK	X-1546-MVK	X-2546-MVK

When ordering, replace X with the appropriate material code (see page 48).

Example: 250 x 4.6mm i.d. ACE 5 C18 Method Validation Kit - Part Number = ACE-121-2546-MVK

Method Validation Kits are available for all phases and column dimensions - please contact your local distributor for further information.

Combinatorial Chemistry Column Kits

- Matched analytical and preparative columns
- Simple, reproducible scale-up
- High sample throughput

A combinatorial chemistry approach to novel drug synthesis is now widely used within the pharmaceutical industry. In addition to the range of columns listed on pages 14-17 and 24-26, combinatorial chemistry column kits are offered containing a pair of analytical and preparative columns.

Both columns are manufactured from the same batch of silica to guarantee precise, reproducible scale-up from analytical to preparative conditions. All phases are available in both 5 or 10µm particle sizes. Examples of the most popular kits are listed below - additional dimensions are also available on request. Further details about ACE preparative columns are listed on pages 32-34.

KITS



COMBINATION CHEMISTRY COLUMN KITS	50 X 7.75mm & 50 X 4.6mm	50 X 10.0mm & 50 X 4.6mm	50 X 21.2mm & 50 X 4.6mm
Combinatorial Chemistry Column Kit (contains 2 columns)	X-0508-CCK	X-0510-CCK	X-0520-CCK

When ordering, replace X with the appropriate material code (see page 48). Example: Combinatorial Chemistry Column Kit containing 50 x 4.6mm i.d. & 50 x 21.2mm i.d. ACE 5 C18 columns - Part Number = ACE-121-0520-CCK

Combinatorial Chemistry Column Kits are available for all phases and column dimensions - please contact your local distributor for further information.